

A Review of the Vascular Plant Species  
Reported from  
Carlsbad Caverns National Park

by: Bob Denham & Norine Fobes  
for: Patricia Barlow-Irick  
Oct. '95

The museum at Carlsbad Caverns National Park has an herbarium containing approximately 1200 vascular plant specimens. This collection is in serious need of revision, since the nomenclature is severely out of date and many of the identifications are incorrect or questionable. In this paper we have reviewed the catalogue (12/17/94) of this Carlsbad Caverns herbarium and correlated it with T. Burgess and D. Northington's "Plants of the Guadalupe Mountains and Carlsbad Caverns National Parks: An Annotated Checklist" (1981).

The purpose of this paper is to provide a foundation for a detailed study aimed at a more complete understanding of the flora of Carlsbad Caverns National Park, which can facilitate proper planning and management of the surface resources of this National Park.

For this paper, the authors have re-examined some specimens of questionable identity in the Carlsbad Caverns herbarium and have also relied on field experience in the Park. A complete review and annotation of all specimens at the Carlsbad Caverns herbarium is far beyond the scope and time framework of this initial paper.

The collection locations for some of the Carlsbad Caverns herbarium specimens is unclear and makes reference to areas which are unfamiliar to current Park staff. It is also beyond the scope and time framework of this initial paper to verify and re-locate all collection locations. It is presumed for the purposes of this paper that all specimens present at the Carlsbad Caverns herbarium have been collected in and/or near the current boundaries of the Park.

This list is alphabetized by family. The nomenclature generally follows Roalson & Allred (1995), except where noted, and then Roalson & Allred's name follows in parentheses. Intraspecific taxa are not listed unless deemed significant by the authors.

Burgess & Northington's list also includes species collected only in Guadalupe Mountains National Park and those collected outside of the boundaries of either Park. We are excluding any of Burgess & Northington's species which are noted "GUMO" or "\*" in their paper, or are annotated as to only having been collected in areas outside of Carlsbad Caverns National Park. They are not always clear as to the definite occurrence of a particular species in Carlsbad Caverns National Park. Apparently, assumptions were made in a number of cases. The authors have tried to make reasonable interpretations of Burgess & Northington's annotations.

All species listed here are represented by specimens at the Carlsbad Caverns herbarium and also reported by Burgess & Northington (1981) for Carlsbad Caverns National Park, unless otherwise noted as follows:

**[specimen at CACA]** Specimen present at the Carlsbad Caverns herbarium. Either these specimens have been personally verified by the authors, or the authors have personally observed these species in the Park, or they represent species reasonably known to occur in the area. These species are not noted by Burgess & Northington (1981) for Carlsbad Caverns National Park.

? **[specimen at CACA]** As above, except either the authors reject the identification of the specimen, or have reason to question the identification, or have not examined the specimen. Comments and/or specimen numbers are added.

**[B&N only]** Species reported by Burgess & Northington (1981) for Carlsbad Caverns National Park, but not represented by specimens at the Carlsbad Caverns herbarium.

? **[B&N only]** As above, except that Burgess & Northington note problems with identification and/or nomenclatural questions. Refer to their paper for more information on these issues.

#### ACANTHACEAE:

*Dyschoriste decumbens* ? [specimen at CACA;  
#5354,5355,5356,5357,6056,7309]

*Dyschoriste hirsutissima* ? (not in Roalson & Allred)  
[specimen at CACA; #5358]

*Dyschoriste linearis* ? [B&N only]

*Ruellia nudiflora* ? (not in Roalson & Allred)  
[specimen at CACA; #5350]

*Siphonoglossa pilosella* [specimen at CACA;  
#5351,5352,5353]

*Stenandrium barbatum*

#### ACERACEAE:

*Acer glabrum* ? [specimen at CACA;  
#5359,5360,5372,5373]

*Acer grandidentatum*

#### AGAVACEAE:

*Agave gracilipes* [B&N only]

*Agave lechuguilla*

*Agave neomexicana* [B&N only]

*Dasyllirion leiophyllum*

*Nolina micrantha* ? (not in Roalson & Allred) [B&N  
only]

*Nolina microcarpa* ? [specimen at CACA; #5733]

*Nolina texana*

*Yucca baccata* [B&N only]

*Yucca elata*

*Yucca torreyi*

#### AMARANTHACEAE:

*Acanthochiton wrightii* [B&N only]

*Amaranthus crassipes* [B&N only]

*Amaranthus graecizans* [specimen at CACA]

*Amaranthus palmeri* [B&N only]

*Amaranthus retroflexus* [B&N only]

*Froelichia floridana*

*Guilleminea densa* [B&N only]

*Tidestromia lanuginosa* [B&N only]

#### ANACARDIACEAE:

*Rhus copallina* var. *lanceolata*

*Rhus glabra* ? [specimen at CACA; #5386]

*Rhus microphylla*

*Rhus trilobata*

*Rhus virens* (? *Rhus choriophylla* of R&A)

*Toxicodendron rydbergii* [B&N only]

#### APIACEAE:

*Aletes filifolius* [B&N only]

*Ammoselinum popei* [B&N only]

*Apium graveolens* ? [specimen at CACA; #6145]

*Cicuta douglasii* ? [specimen at CACA; #6036]

*Pseudocymopterus longiradiatus* [B&N only]

*Pseudocymopterus montanus* [B&N only]

*Spermolepis divaricata* ? [specimen at CACA;  
#6143,6144]

*Spermolepis inermis* [B&N only]

**APOCYNACEAE:**

- Amsonia longiflora* [B&N only]
- Apocynum cannabinum*
- Apocynum medium* ? [B&N only]

**ASCLEPIADACEAE:**

- Asclepias asperula*
- Asclepias elata* [B&N only]
- Asclepias engelmanniana* [B&N only]
- Asclepias latifolia* [B&N only]
- Asclepias macrotis* [B&N only]
- Asclepias oenotheroides* [B&N only]
- Asclepias subverticillata*
- Asclepias tuberosa* [B&N only]
- Asclepias venisotoxicana* ? (not in Roalson & Allred)  
[specimen at CACA; #5391]
- Asclepias viridiflora* [B&N only]
- Matelea producta*
- Sarcostemma crispum* [B&N only]
- Sarcostemma cynanonchoides* [B&N only]

**ASPLENIACEAE:**

- Asplenium resiliens* [B&N only]

**ASTERACEAE:**

- Achillea lanulosa* [B&N only]
- Acourtia nana*
- Acourtia wrightii*
- Ambrosia artemisiifolia* [specimen at CACA]
- Ambrosia psilostachya* [B&N only]
- Amphiachyris dracunculoides* ? [specimen at CACA;  
#5799]
- Aphanostephus ramosissimus* [B&N only]
- Artemisia dracunculus*
- Artemisia ludoviciana*
- Baccharis havardii* [B&N only]
- Baccharis pteronioides*
- Baccharis salicina*
- Bahia absinthifolia*
- Bahia dissecta* [B&N only]
- Bahia pedata*
- Baileya multiradiata* [B&N only]
- Berlandiera lyrata*
- Bidens bigelovii* [B&N only]
- Brickellia brachyphylla* [B&N only]
- Brickellia californica*

- Brickellia fendleri* [B&N only]
- Brickellia grandiflora* [B&N only]
- Brickellia laciniata*
- Centaurea americana*
- Centaurea mexicana* ? (not in Roalson & Allred)  
[specimen at CACA; #4385]
- Chaetopappa ericoides*
- Chaetopappa hersheyi* [B&N only]
- Chrysactinia mexicana*
- Cirsium ochrocentrum* [B&N only]
- Cirsium undulatum*
- Conyza canadensis*
- Dicranocarpus parvifolius* [B&N only]
- Dyssodia papposa* [specimen #4478 at CACA is really  
*Thymophylla pentachaeta* var.  
*belenidium*]
- Engelmannia pinnatifida*
- Ericameria laricifolia* [specimen at CACA]
- Ericameria nauseosa* ssp. *texensis* [B&N only]
- Ericameria spathulata* [B&N only]
- Erigeron divergens*
- Erigeron flagellaris* [specimen at CACA]
- Erigeron modestus* ? [B&N only]
- Erigeron* sp. ? [specimen at CACA; #5690]
- Eupatorium rothrockii* [B&N only]
- Eupatorium wrightii*
- Evax multicaulis* ? [specimen at CACA; #6039]
- Evax verna* (not in Roalson & Allred) [B&N only]
- Flourensia cernua*
- Franseria confertiflora* [specimen at CACA]
- Gaillardia pinnatifida*
- Gnaphalium macounii* [B&N only]
- Gnaphalium palustre* ? [specimen at CACA;  
#5651,5652]
- Gnaphalium wrightii* [B&N only]
- Grindelia havardii*
- Grindelia squarrosa* ? [specimen at CACA;  
#5645,5649,5650]
- Grindelia texana* ? (Roalson & Allred report not in  
NM)[specimen at CACA; #5646]
- Gutierrezia microcephala*
- Gutierrezia sarothrae*
- Gutierrezia sphaerocephala* [B&N only]
- Gutierrezia wrightii* ? [specimen at CACA, #5802]
- Gymnosperma glutinosum*
- Helianthus annuus* [specimen at CACA]

*Helianthus nuttallii* ? [specimen at CACA; #4460]  
*Helianthus petiolaris*  
*Heterotheca fulcrata* [B&N only]  
*Hieracium fendleri* [B&N only]  
*Hymenoclea monogyra*  
*Isocoma pluriflora* [specimen at CACA]  
*Isocoma rusbyi* ? [specimen at CACA; #5587]  
*Iva ambrosiaefolia* [B&N only]  
*Iva dealbata* [B&N only]  
*Lactuca ludoviciana*  
*Laennecia coulteri* [B&N only]  
*Liatris punctata*  
*Lygodesmia grandiflora* ? [specimen at CACA; #5701]  
*Lygodesmia pauciflora* ? (not in Roalson & Allred; this is probably *Stephanomeria pauciflora*) [specimen at CACA; #5702,5703]  
*Lygodesmia texana*  
*Machaeranthera blephariphylla* [B&N only]  
*Machaeranthera pinnatifida*  
*Machaeranthera tanacetifolia*  
*Melampodium leucanthum*  
*Parthenium incanum*  
*Parthenium lyratum*  
*Pectis angustifolia* ? [specimen at CACA; #5708]  
*Pectis longipes* ? [specimen at CACA; #5707,5706]  
*Pectis papposa*  
*Perityle quinqueflora*  
*Pinaropappus parvus* [B&N only]  
*Pinaropappus roseus*  
*Porophyllum scoparium* [B&N only]  
*Psilostrophe tagetina*  
*Pyrrhopappus pauciflorus*  
*Ratibida columnifera*  
*Sanvitalia abertii* [B&N only]  
*Sartwellia flaveriae* [B&N only]  
*Senecio flaccidus* var. *douglassii* ? [B&N only]  
*Senecio flaccidus* var. *flaccidus*  
*Senecio hartianus* ? [B&N only]  
*Senecio neomexicanus* ? [B&N only]  
*Senecio obovatus* ? (not in Roalson & Allred) [B&N only]  
*Solidago altissima*  
*Solidago spathulata* ? [specimen at CACA; #5748]  
*Solidago wrightii* [B&N only]  
*Sonchus asper*

*Sonchus oleraceus*  
*Stephanomeria pauciflora*  
*Stephanomeria tenuifolia* ? [specimen at CACA; #5754,5755]  
*Symphyotrichum ericoides* [specimen at CACA]  
*Symphyotrichum laeve* ?  
*Symphyotrichum subulatum*  
*Taraxacum officinale*  
*Tetranneuris acaulis* [specimen at CACA]  
*Tetranneuris brandegei* ? [specimen at CACA; #5570]  
*Tetranneuris linearifolia*  
*Tetranneuris scaposa* [B&N only]  
*Thelesperma longipes*  
*Thelesperma megapotamicum*  
*Thymophylla acerosa*  
*Thymophylla pentachaeta* var. *belenidium*  
*Thymophylla pentachaeta* var. *hartwegii* ? [specimen at CACA; #5593,6061; specimen #6061 is really var. *belenidium*; specimen #5593 is really var. *puberula*]  
*Thymophylla setifolia* var. *radiata*  
*Townsendia exscapa* [B&N only]  
*Trixis californica* [B&N only]  
*Verbesina encelioides*  
*Viguera cordifolia*  
*Viguera dentata*  
*Viguera longifolia* ? [specimen at CACA; #5792,5793,5794,5795]  
*Viguera multiflora* [B&N only]  
*Viguera stenoloba*  
*Viguera tenuifolia* ? (not in Roalson & Allred; possibly *V. stenoloba*) [specimen at CACA; #5791]  
*Xanthium strumarium*  
*Zinnia acerosa*  
*Zinnia grandiflora*

#### BERBERIDACEAE:

*Berberis haematocarpa* [B&N only]  
*Berberis repens* [B&N only]  
*Berberis trifoliolata*

#### BETULACEAE:

*Ostrya knowltonii*

#### BIGNONIACEAE:

*Chilopsis linearis*

**BORAGINACEAE:**

- Cryptantha albida*  
*Cryptantha crassisepala* [B&N only]  
*Cryptantha mexicana* [B&N only]  
*Cryptantha minima*  
*Cryptantha oblata* [B&N only]  
*Cryptantha palmeri* [B&N only]  
*Hackelia besseyi* [B&N only]  
*Heliotropium greggii* [B&N only]  
*Lappula redowskii*  
*Lithospermum cobrense* ? [specimen at CACA;  
#5370,5371]  
*Lithospermum incisum*  
*Lithospermum multiflorum* [B&N only]  
*Lithospermum parksii* [B&N only]  
*Lithospermum viride* [B&N only]  
*Tiquila canescens* [B&N only]  
*Tiquilia greggii*  
*Tiquilia hispidissima*

**BRASSICACEAE:**

- Descurainia pinnata*  
*Descurainia richardsonii* ? (divided between *D. incana*  
and *D. incisa* by Roalson & Allred)  
[specimen at CACA; #5812]  
*Dithyrea wislizenii* [B&N only]  
*Draba cuneifolia*  
*Erysimum capitatum*  
*Halimolobos diffusa* [B&N only]  
*Lepidium lasiocarpum*  
*Lepidium montanum*  
*Lepidium oblongum* ? [specimen at CACA;  
#5825,5826]  
*Lepidium virginicum*  
*Lesquerella fendleri*  
*Lesquerella gordonii* [B&N only]  
*Lesquerella purpurea*  
*Lesquerella valida* [B&N only]  
*Nerisyrenia camporum* [B&N only]  
*Nerisyrenia linearifolia* [B&N only]  
*Rorippa nasturtium-aquaticum*  
*Schoenocrambe linearifolia*  
*Sisymbrium altissimum* [specimen at CACA]  
*Sisymbrium irio* [specimen at CACA]  
*Streptanthus carinatus* [B&N only]

*Streptanthus cordatus* ? [specimen at CACA;  
#5864,5865,5866,7316]

*Streptanthus sparsiflorus* [B&N only]

*Thelypodium wrightii* [B&N only]

**CACTACEAE:**

- Ancistrocactus uncinatus* [B&N only]  
*Coryphantha macromeris* [B&N only]  
*Coryphantha scheeri* [B&N only]  
*Coryphantha sneedii* var. *leei*  
*Coryphantha strobiliformis* [B&N only]  
*Coryphantha vivipara* [B&N only]  
*Echinocactus horizonthalonius* [B&N only]  
*Echinocereus enneacanthus* var. *stramineus* [B&N  
only]  
*Echinocereus pectinatus* var. *neomexicanus* [B&N  
only]  
*Echinocereus triglochidiatus* (B&N report *E. t.* var.  
*melanacanthus*; however the plants we  
have seen in the Park clearly do not fit  
Benson's description for this variety)  
[B&N only]  
*Echinocereus viridiflorus* var. *cylindricus* [B&N  
only]  
*Epithelantha micromeris* [B&N only]  
*Mammillaria heyderi* [B&N only]  
*Mammillaria lasiacantha* [B&N only]  
{Roalson & Allred's nomenclature for *Opuntia* does  
not conform to recent papers and current  
studies. *O. engelmannii*, especially, has  
been very confused since Benson &  
Walkington (1965). See Parfitt &  
Pinkava (1988) for resolution of these  
issues}  
*Opuntia engelmannii* var. *engelmannii* (*O.*  
*phaeacantha* var. *discata* of R&A) [B&N  
only]  
*Opuntia engelmannii* var. *lindheimeri* (*O. lindheimeri*  
of R&A) [B&N only]  
*Opuntia imbricata*  
*Opuntia kleiniae*  
*Opuntia leptocaulis* [B&N only]  
*Opuntia macrorrhiza* [B&N only]  
*Opuntia phaeacantha* [B&N only]  
*Opuntia violacea* var. *macrocentra* [B&N only]

**CAESALPINIACEAE:**

- Cassia bauhinioides*  
*Cassia lindheimeriana*  
*Cassia roemeriana*

- Hoffmannseggia drepanocarpa* [B&N only]  
*Hoffmannseggia glauca*
- CAMPANULACEAE:**  
*Campanula rotundifolia* [B&N only]  
*Lobelia cardinalis*
- CAPPARACEAE:**  
*Koeberlinia spinosa* [B&N only]  
*Polanisia dodecandra*
- CAPRIFOLIACEAE:**  
*Lonicera albiflora*  
*Lonicera arizonica* [B&N only]  
*Symphoricarpos longiflorus* [B&N only]  
*Symphoricarpos rotundifolius* ? [B&N only]
- CARYOPHYLLACEAE:**  
*Arenaria jamesiana* (not in Roalson & Allred; possibly  
*Stellaria jamesiana*) [B&N only]  
*Arenaria lanuginosa* (not in Roalson & Allred) [B&N  
only]  
*Arenaria macradenia* ?(not in Roalson & Allred)  
[specimen at CACA; #5448?]  
*Cerastium nutans* ? [specimen at CACA; #7325]  
*Paronychia depressa* ?(not in Roalson & Allred;  
possibly *Drymaria depressa*) [specimen at  
CACA; #5450]  
*Paronychia jamesii*  
*Silene antirrhina* [B&N only]  
*Silene laciniata* [B&N only]  
*Stellaria cuspidata* [B&N only]
- CELASTRACEAE:**  
*Mortonia scabrella* ? [B&N only]
- CHENOPODIACEAE:**  
*Atriplex canescens*  
*Ceratoides lanata* [B&N only]  
*Chenopodium albescens* [B&N only]  
*Chenopodium berlandieri*  
*Chenopodium dessicatum*  
*Kochia scoparia* [specimen at CACA]  
*Monolepis nuttalliana* ? [specimen at CACA; #5471]  
*Salsola kali*
- COMMELINACEAE:**  
*Commelina dianthifolia* [B&N only]  
*Commelina erecta*  
*Tradescantia wrightii* [B&N only]
- CONVOLVULACEAE:**  
*Convolvulus arvensis* ? [specimen at CACA;  
#4369,5501]  
*Convolvulus equitans*  
*Dichondra brachypoda* [B&N only]  
*Evolvulus nuttallianus*  
*Ipomoea cardiophila* ? [specimen at CACA; #4389]  
*Ipomoea costellata*  
*Ipomoea cristulata* [B&N only]  
*Ipomoea heterophylla* ? (not in Roalson & Allred)  
[specimen at CACA; #5505]  
*Ipomoea lindheimeri*
- CRASSULACEAE:**  
*Sedum wrightii* [B&N only]
- CROSSOSOMATAACEAE:**  
*Glossopetalon spinescens* [B&N only]
- CUCURBITACEAE:**  
*Cucurbita foetidissima*  
*Ibervillea tenuisecta*
- CUPRESSACEAE:**  
*Juniperus deppeana*  
*Juniperus monosperma*  
*Juniperus pinchotii*  
*Juniperus scopulorum*
- CUSCUTACEAE:**  
*Cuscuta indecora* [B&N only]
- CYPERACEAE:**  
*Carex geophila* [B&N only]  
*Carex hystricina*  
*Carex microdonta* (not in Roalson & Allred) [B&N  
only]  
*Carex muriculata* ? (not in Roalson & Allred) [B&N  
only]  
*Carex planostachys* ? (not in Roalson & Allred) [B&N  
only]  
*Cladium jamaicense* [B&N only]  
*Cyperus fendlerianus*  
*Eleocharis montevidensis*  
*Fuirena simplex*  
*Scirpus paludosus* ? [specimen at CACA;  
#5547,5548]

**ELAEAGNACEAE:**

*Elaeagnus angustifolia* [specimen at CACA]

**EPHEDRACEAE:**

*Ephedra antisiphilitica* ? (reported by Roalson & Allred "not in NM") [specimen at CACA; #5422]

*Ephedra aspera* [B&N only]

*Ephedra torreyana* [B&N only]

*Ephedra viridis* ? [specimen at CACA; #5423; probably *E. aspera*]

**EQUISETACEAE:**

*Equisetum laevigatum* [B&N only]

**ERICACEAE:**

*Arbutus arizonica* ? [specimen at CACA; #5897]

*Arbutus texana* [B&N only]

**EUPHORBIACEAE:**

*Acalypha lindheimeri*

*Acalypha neomexicana* [B&N only]

*Bernardia obovata* (not in Roalson & Allred)

*Chamaesyce acuta* [B&N only]

*Chamaesyce albomarginata*

*Chamaesyce chaetocalyx* ? [B&N only]

*Chamaesyce fendleri*

*Chamaesyce glyptosperma*

*Chamaesyce lata*

*Chamaesyce revoluta* [B&N only]

*Chamaesyce serpyllifolia* [B&N only]

*Chamaesyce serrula* [B&N only]

*Chamaesyce stictospora* [B&N only]

*Croton dioicus*

*Croton fruticulosus*

*Croton lindheimerianus* [B&N only]

*Croton pottsii*

*Ditaxis neomexicana*

*Euphorbia brachycera* [B&N only]

*Euphorbia cyathophora* (not in Roalson & Allred) [B&N only]

*Euphorbia dentata* [B&N only]

*Euphorbia exstipulata*

*Euphorbia heterophylla* ? [specimen at CACA; #5959,5960]

*Euphorbia spathulata*

*Phyllanthus polygonoides*

*Stillingia texana* ? (not in Roalson & Allred) [specimen at CACA; #5944,5945]

*Tragia nepetaefolia* [specimen at CACA]

*Tragia stylaris*

**FABACEAE:**

*Astragalus emoryanus* [B&N only]

*Astragalus missouriensis* [B&N only]

*Astragalus mollisimus*

*Astragalus nuttallianus*

*Astragalus pictiformis* [B&N only]

*Astragalus puniceus* ? [specimen at CACA; #5783]

*Cercis occidentalis* ? (not in Roalson & Allred) [specimen at CACA; #4455]

*Cologania longifolia* (*C. angustifolia* is not listed in Roalson & Allred as a synonym) [B&N only]

*Cologania pallida* (not in Roalson & Allred) [B&N only]

*Dalea argyraea*

*Dalea flavescens* ? (not in Roalson & Allred) [specimen at CACA; #5382]

*Dalea formosa*

*Dalea frutescens*

*Dalea jamesii* [B&N only]

*Dalea lachnostachys* ? [specimen at CACA; #5871,5872]

*Dalea nana*

*Dalea pogonathera*

*Dalea versicolor* ? [specimen at CACA; #5879,5880,5881]

*Dalea wrightii* [B&N only]

*Desmodium psilophyllum* (not in Roalson & Allred) [B&N only]

*Medicago lupulina* [B&N only]

*Melilotus albus* [specimen at CACA]

*Melilotus officinalis* [specimen at CACA]

*Petalostemum candidum*

*Phaseolus angustissimus* ? [specimen at CACA; #5920]

*Rhynchosia senna*

*Robinia neomexicana* [B&N only]

*Sophora secundiflora*

*Trifolium dubium* ? (not in Roalson & Allred) [specimen at CACA; #4492,7041]

*Vicia americana* [B&N only]

*Vicia exigua*

*Vicia leavenworthii* ? (reported in Roalson & Allred as "not in NM") [specimen at CACA; #4407,5907]

*Vicia micrantha* ? (not in Roalson & Allred) [specimen at CACA; #5908]

**FAGACEAE:**

*Quercus gambelii*

*Quercus grisea*

*Quercus mohriana* ? [B&N only]

*Quercus muhlenbergii*

*Quercus oblongifolia* ? [specimen at CACA; #5416]

*Quercus pungens*

*Quercus "X undulata"* (*Q. undulata* in R&A)

**FOUQUIERIACEAE:**

*Fouquieria splendens* [B&N only]

**FUMARIACEAE:**

*Corydalis aurea*

*Corydalis curvisiliqua* (not in Roalson & Allred) [B&N only]

**GARRYACEAE:**

*Garrya ovata* [B&N only]

*Garrya wrightii* ? [specimen at CACA; #5809,5810]

**GENTIANACEAE:**

*Centaurium calycosum*

**GERANIACEAE:**

*Erodium cicutarium*

*Erodium texanum* [B&N only]

*Geranium caespitosum* [B&N only]

**HYDRANGEACEAE:**

*Fendlera rupicola*

*Fendlerella utahensis* [B&N only]

*Philadelphus argenteus* ? [B&N only]

*Philadelphus hitchcockianus* ? [B&N only]

*Philadelphus occidentalis* ? [B&N only]

*Philadelphus sp.* ? [specimen at CACA; #6125]

**HYDROPHYLLACEAE:**

*Nama carnosum*

*Nama dichotomum* [B&N only]

*Nama hispidum*

*Nama oxopodum* ? (not in Roalson & Allred) [specimen at CACA; #5720]

*Nama xylopodum*

*Phacelia congesta* [B&N only]

*Phacelia crenulata* ? [specimen at CACA; #5721,5722,4452]

*Phacelia integrifolia*

*Phacelia intermedia* ? [specimen at CACA; #5724,7317]

*Phacelia popei* ? [specimen at CACA; #5723]

*Phacelia rupestris*

**IRIDACEAE:**

*Sisyrinchium demissum* ? [B&N only]

*Sisyrinchium idahoense* ? [specimen at CACA; #5729]

*Sisyrinchium montanum* ? (probably *S. montanum*) [specimen at CACA; #5728]

**JUGLANDACEAE:**

*Juglans microcarpa*

**JUNCACEAE:**

*Juncus tenuis* ? [B&N only]

*Juncus torreyi* [B&N only]

**KRAMERIACEAE:**

*Krameria grayi*

*Krameria lanceolata*

*Krameria parvifolia* [B&N only]

**LAMIACEAE:**

*Agastache pallidiflora* [B&N only]

*Hedeoma costatum*

*Hedeoma drummondii* [B&N only]

*Hedeoma nanum* [B&N only]

*Hedeoma plicatum* ? [specimen at CACA; #6010,6011]

*Hedeoma pulchella* ? (probably *H. pulcherrimum*) [specimen at CACA; #5777,5778,5779,6012,6013]

*Marrubium vulgare*

*Mentha spicata* [specimen at CACA]

*Monarda menthifolia* [B&N only]

*Poliomintha incana* [B&N only]

*Salvia farinacea*

*Salvia henryi* ? [specimen at CACA; #6016,6017]

*Salvia lycioides* [B&N only]

*Salvia pinguifolia* ? [specimen at CACA; #6018]

*Salvia reflexa*

*Salvia summa*

*Salvia texana* ? (not in Roalson & Allred) [specimen at CACA; #5781]

*Scutellaria drummondii*

*Teucrium cubense* ? [specimen at CACA; #6007,6008]

*Teucrium laciniatum*

**LILIACEAE :**

*Allium cernuum*

*Allium drummondii*

*Allium geyeri* [specimen at CACA]

*Allium glandulosum* ? (not in Roalson & Allred) [specimen at CACA; #5773]

*Allium kunthii* [B&N only]

*Allium macropetalum* ? [specimen at CACA; #5769,5770,5771]

*Anthericum torreyi* [B&N only]

*Asparagus officinalis* [specimen at CACA]

*Cooperia drummondii* (not in Roalson & Allred) [B&N only]

*Nothoscordum bivalve* ? (not in Roalson & Allred) [B&N only]

*Schoenocaulon texanum* [B&N only]

*Zephyranthes longifolia*

**LINACEAE:**

*Linum aristatum*

*Linum lewisii*

*Linum pratense* [specimen at CACA]

*Linum puberulum*

*Linum rigidum* [B&N only]

*Linum rupestre*

*Linum schiedeanum* [B&N only]

*Linum vernale* [B&N only]

**LOASACEAE:**

*Cevallia sinuata* [B&N only]

*Mentzelia albicaulis* ? [specimen at CACA; #number illegible]

*Mentzelia asperula* ? (not in Roalson & Allred) [specimen at CACA; #numbers illegible]

*Mentzelia humilis* [B&N only]

*Mentzelia multiflora* [B&N only]

*Mentzelia oligosperma*

*Mentzelia puberula* ? (not in Roalson & Allred) [specimen at CACA; #number illegible]

*Mentzelia strictissima* [specimen at CACA]

*Mentzelia texana* ? [specimen at CACA; #number illegible]

**MALVACEAE:**

*Abutilon incanum*

*Abutilon malacum*

*Abutilon parvulum*

*Hibiscus denudatus* [B&N only]

*Sida abutifolia*

*Sphaeralcea angustifolia* [specimen at CACA]

*Sphaeralcea coccinea*

*Sphaeralcea digitata* [B&N only]

*Sphaeralcea fendleri*

*Sphaeralcea incana* [B&N only]

*Sphaeralcea leptophylla*

*Sphaeralcea subhastata*

**MIMOSACEAE:**

*Acacia angustissima*

*Acacia constricta*

*Acacia greggii*

*Acacia neovernicosa*

*Acacia roemeriana*

*Calliandra eriophylla* ? [specimen at CACA; #5902]

*Desmanthus illinoensis* ? [specimen at CACA; #4513]

*Desmanthus velutinus* [B&N only]

*Mimosa aculeaticarpa* var. *biuncifera*

*Mimosa borealis*

*Prosopis glandulosa* var. *torreyana*

**MONOTROPACEAE:**

*Pterospora andromeda* ? [B&N only]

**MORACEAE:**

*Morus microphylla*

**NYCTAGINACEAE:**

*Abronia angustifolia*

*Abronia carletonii* ? [B&N only]

*Acleisanthes longiflora*

*Allionia incarnata*

*Ammocodon chenopodioides* ? [specimen at CACA; #6134]

*Boerhaavia intermedia*

*Boerhaavia linearifolia*

*Boerhaavia tenuifolia* [specimen at CACA]

*Cyphomeris gypsophiloides*

*Mirabilis diffusa* ? [B&N only]

*Mirabilis hirsuta* [B&N only]

- Mirabilis linearis* (R&A is inconsistent in their treatment of *Mirabilis* vs. *Oxybaphus*)
- Mirabilis multiflora* [B&N only]
- Mirabilis oblongifolia* (not in Roalson & Allred) [B&N only]
- Mirabilis oxybaphoides* [B&N only]
- Mirabilis pseudoaggregata* ? (not in Roalson & Allred) [B&N only]
- Selinocarpus lanceolatus* [B&N only]
- OLEACEAE:**
- Forestiera pubescens* (split into *F. pubescens* and *F. neomexicana* in R&A) [B&N only]
- Fraxinus pennsylvanica* ssp. *velutina*
- Menodora longiflora*
- Menodora scabra*
- Menodora* sp. ? [specimen at CACA; #6762]
- ONAGRACEAE:**
- Calylophus hartwegii*
- Calylophus lavandulaefolius* ? [specimen at CACA; #6236,6237]
- Calylophus serrulata* ? [specimen at CACA; #6756,7240]
- Calylophus tubicula*
- Gaura coccinea*
- Gaura parviflora*
- Gaura* sp. ? [specimen at CACA; #6242]
- Ludwigia palustris* ? [specimen at CACA; #6557,6755,6757,6758]
- Oenothera albicaulis* [B&N only]
- Oenothera brachycarpa* [B&N only]
- Oenothera hookeri*
- Oenothera primiveris*
- Oenothera* sp. ? [specimen at CACA; #6233]
- Oenothera triloba* [B&N only]
- OROBANCHACEAE:**
- Conopholis mexicana* [B&N only]
- Orobanche ludoviciana* [specimen at CACA]
- OXALIDACEAE:**
- Oxalis latifolia* ? [B&N only]
- Oxalis violacea* ? [specimen at CACA; #6231]
- PAPAVERACEAE:**
- Argemone chisoensis* (not in Roalson & Allred) [B&N only]
- Argemone polyanthemus* ? [specimen at CACA; #6230]
- Argemone squarossa*
- PHYTOLACACEAE:**
- Rivina humilis* [specimen at CACA]
- PINACEAE:**
- Pinus edulis*
- Pinus ponderosa* [B&N only]
- Pinus strobiliformis* [B&N only]
- Pseudotsuga menziesii* [B&N only]
- PLANTAGINACEAE:**
- Plantago helleri* [B&N only]
- Plantago lanceolata*
- Plantago patagonica*
- Plantago rhodosperma*
- Plantago wrightiana* ? [specimen at CACA; #6771]
- POACEAE:**
- Andropogon gerardii* [B&N only]
- Andropogon glomeratus* ? [specimen at CACA; #5428,5429]
- Aristida adscensionis*
- Aristida arizonica* ? [specimen at CACA; #5437]
- Aristida havardii* [B&N only]
- Aristida pansa*
- Aristida purpurea* var. *longiseta*
- Aristida purpurea* var. *nealleyi*
- Aristida purpurea* var. *purpurea* [B&N only]
- Aristida purpurea* var. *wrightii* [B&N only]
- Avena fatua* [specimen at CACA]
- Blepharoneuron tricholepis* [B&N only]
- Bothriochloa barbinodis*
- Bothriochloa laguroides*
- Bothriochloa springfieldii* [B&N only]
- Bouteloua aristidoides* [B&N only]
- Bouteloua barbata*
- Bouteloua breviseta* [B&N only]
- Bouteloua curtispindula*
- Bouteloua eriopoda*
- Bouteloua gracilis*
- Bouteloua hirsuta*
- Bouteloua warnockii* [B&N only]
- Bromus anomalus* ? [B&N only]
- Bromus catharticus*
- Bromus ciliatus* ? [B&N only]
- Cenchrus incertus*

*Chloris virgata* [B&N only]  
*Cynodon dactylon*  
*Dasyochloa pulchella*  
*Dichanthelium acuminatum* [B&N only]  
*Dichanthelium oligosanthes* [B&N only]  
*Digitaria californica*  
*Digitaria cognata*  
*Echinochloa crus-galli* [B&N only]  
*Eleusine indica* ? [specimen at CACA; #4502]  
*Elymus canadensis*  
*Elymus elymoides*  
*Elymus smithii* [B&N only]  
*Elymus spicatus* ? [B&N only]  
*Enneapogon desvauxii*  
*Eragrostis barrelieri*  
*Eragrostis cilianensis*  
*Eragrostis erosa* ? [B&N only]  
*Eragrostis intermedia*  
*Eragrostis mexicana* [specimen at CACA]  
*Eragrostis pectinacea* [B&N only]  
*Eragrostis spectabilis* ? [specimen at CACA; #5495,5496]  
*Erioneuron avenaceum* ? [B&N only]  
*Erioneuron pilosium*  
*Heteropogon contortus*  
*Hordeum pusillum*  
*Koeleria macrantha* [B&N only]  
*Leptochloa dubia*  
*Lolium perenne* [specimen at CACA]  
*Lycurus phleoides*  
*Melica nitens* [B&N only]  
*Muhlenbergia arenacea* [B&N only]  
*Muhlenbergia arenicola*  
*Muhlenbergia dubia* [B&N only]  
*Muhlenbergia emersleyi*  
*Muhlenbergia fragilis* [B&N only]  
*Muhlenbergia metcalfei* ? [B&N only]  
*Muhlenbergia montana* [B&N only]  
*Muhlenbergia parviglumis* [B&N only]  
*Muhlenbergia pauciflora*  
*Muhlenbergia porteri*  
*Muhlenbergia repens*  
*Muhlenbergia setifolia*  
*Muhlenbergia tenuifolia* [B&N only]  
*Munroa squarrosa* [B&N only]

*Panicum bulbosum* ? [B&N only]  
*Panicum capillare* [B&N only]  
*Panicum hallii*  
*Panicum obtusum*  
*Paspalum distichum*  
*Piptochaetium fimbriatum*  
*Pleuraphis mutica*  
*Poa bigelovii* [B&N only]  
*Poa fendleriana* [B&N only]  
*Polypogon monspeliensis* [B&N only]  
*Polypogon viridis* [B&N only]  
*Puccinellia sp.* ? [specimen at CACA; #5544,5545]  
*Schizachyrium scoparium*  
*Scleropogon brevifolius* [B&N only]  
*Setaria leucopila*  
*Setaria viridis* [specimen at CACA]  
*Sorghastrum nutans* [B&N only]  
*Sorghum halepense*  
*Sphenopholis obtusata* [B&N only]  
*Sporobolus airoides* [B&N only]  
*Sporobolus contractus* [B&N only]  
*Sporobolus cryptandrus*  
*Sporobolus flexuosus* [B&N only]  
*Sporobolus nealleyi* [B&N only]  
*Sporobolus wrightii* [B&N only]  
*Stipa eminens* [B&N only]  
*Stipa lettermani* ? [specimen at CACA; #5604]  
*Stipa lobata* [B&N only]  
*Stipa neomexicana*  
*Stipa pringlei* [B&N only]  
*Stipa tenuissima*  
*Tragus berteronianus* [B&N only]  
*Tridens muticus*  
**POLEMONIACEAE:**  
*Gilia incisa*  
*Gilia rigidula*  
*Ipomopsis aggregata* [specimen at CACA]  
*Ipomopsis longiflora*  
*Multiflora tenuis* ? (not in Roalson & Allred) [specimen at CACA; #6777]  
*Phlox nana* ? [specimen at CACA; #6776]  
*Phlox longifolia* ? [specimen at CACA; #6783]  
*Phlox triovulata*

**POLYGALACEAE:**

*Polygala alba*

*Polygala barbeyana* (*P. longa* of R&A; *P. racemosa*  
should be listed as a synonym)

*Polygala macradenia*

*Polygala obscura* ? [specimen at CACA;  
#6853,6854,6855,6848; these specimens  
have glabrous capsule faces and are  
probably *P. barbeyana*]

*Polygala rimulicola* [B&N only]

*Polygala scoparioides*

**POLYGONACEAE:**

*Eriogonum abertianum* [B&N only]

*Eriogonum alatum* [B&N only]

*Eriogonum havardii*

*Eriogonum hieracifolium*

*Eriogonum jamesii*

*Eriogonum lachnogynum* ? [specimen at CACA;  
#6843]

*Eriogonum sp.* ? [specimen at CACA; #6814,6815]

*Rumex crispus* ? [specimen at CACA; #6032,6049]

*Rumex hymenosepalus*

**PORTULACACEAE:**

*Portulaca mundula*

*Portulaca oleracea* [specimen at CACA]

*Portulaca retusa* [B&N only]

*Talinopsis frutescens* [B&N only]

*Talinum angustissimum*

*Talinum aurantiacum*

*Talinum pulchellum* [B&N only]

**POTAMOGETONACEAE:**

*Potamogeton foliosus* ? [specimen at CACA;  
#6802,6803]

**PRIMULACEAE:**

*Androsace occidentalis* [specimen at CACA]

**PTERIDACEAE:**

*Adiantum capillus-veneris*

*Argyrochosma microphylla*

*Astrolepis integerrima*

*Cheilanthes alabamensis* [B&N only]

*Cheilanthes eatonii*

*Cheilanthes feei* [B&N only]

*Cheilanthes tomentosa* ? [specimen at CACA; #5931]

*Cheilanthes villosa* [B&N only]

*Pellaea atropurpurea* [B&N only]

*Pellaea intermedia* [B&N only]

**RANUNCULACEAE:**

*Anemone tuberosa*

*Aquilegia chaplinei* ? [B&N only]

*Aquilegia chrysantha* ? [specimen at CACA; #6074]

*Clematis drummondii*

*Clematis pitcheri*

*Delphinium pennardi* ? (not in Roalson & Allred)  
[specimen at CACA; #6073]

*Delphinium wootoni*

*Thalictrum fendleri* [B&N only]

**RHAMNACEAE:**

*Ceanothus greggii*

*Condalia ericoides* (*Microrhamnus ericoides* of R&A)

*Condalia spathulata* ? [specimen at CACA;  
#4504,6067,6068]

*Condalia warnockii* [B&N only]

*Frangula betulaefolia* [B&N only]

*Frangula californica* ? [specimen at CACA; #6064]

*Rhamnus smithii* [specimen at CACA]

*Ziziphus obtusifolia* (*Condalia lycioides* of R&A)

**ROSACEAE:**

*Cercocarpus montanus var. argenteus* [B&N only]

*Cercocarpus montanus var. paucidentatus*

*Fallugia paradoxa*

*Holodiscus dumosus* [B&N only]

*Petrophytum caespitosum*

*Prunus cearasus* ? (not in Roalson & Allred) [specimen  
at CACA; #4456]

*Prunus serotina*

*Prunus virginiana* [specimen at CACA]

*Pyrus sp.* ? [specimen at CACA; #4401]

*Rosa stellata* [B&N only]

**RUBIACEAE:**

*Galium mexicanum* (not in Roalson & Allred) [B&N  
only]

*Galium microphyllum* [B&N only]

*Galium proliferum* [B&N only]

*Galium wrightii* [B&N only]

*Hedyotis nigricans* (R&A's treatment of *Hedyotis* vs.  
*Houstonia* is inconsistent)

*Houstonia acerosa*

**RUTACEAE:**

*Choisya arizonica* ? (not in Roalson & Allred)  
[specimen at CACA; #6086,6087]

*Choisya dumosa* [B&N only]

*Ptelea trifoliata*

*Thamnosma texana*

**SALICACEAE:**

*Populus deltoides* ssp. *wislizenii*

*Salix amygdaloides* ? [specimen at CACA; #6142]

*Salix gooddingii*

**SAPINDACEAE:**

*Sapindus saponaria*

*Ungnadia speciosa*

**SAXIFRAGACEAE:**

*Heuchera rubescens* [B&N only]

**SCROPHULARIACEAE:**

*Castilleja austromontana* ? [specimen at CACA;  
#6119]

*Castilleja integra*

*Castilleja sessiliflora*

*Leucophyllum minus*

*Maurandya antirrhiniflora*

*Maurandya sp.* ? [specimen at CACA; #6109]

*Penstemon barbatus* [B&N only]

*Penstemon brevibarbatulus* (not in Roalson & Allred)  
[B&N only]

*Penstemon cardinalis*

*Penstemon fendleri*

*Penstemon jamesii* ? [specimen at CACA; #6112]

*Verbascum thapsus*

**SELAGINELLACEAE:**

*Selaginella arizonica* ? (R&A report "not in NM")  
[specimen at CACA; #6103]

*Selaginella mutica* [B&N only]

*Selaginella pilifera* [B&N only]

*Selaginella wrightii* [B&N only]

**SOLANACEAE:**

*Capsicum baccatum* ? [specimen at CACA; #6166]

*Chamaesaracha conioides* ? [specimen at CACA;  
#4396,5340,6162,6163,6164,6165]

*Chamaesaracha coronopus* [specimen at CACA]

*Chamaesaracha edwardsiana* (not in Roalson & Allred)  
[B&N only]

*Chamaesaracha pallida* [B&N only]

*Chamaesaracha sordida* [B&N only]

*Datura quercifolia* [specimen at CACA]

*Lycium berlandieri* [specimen at CACA]

*Nicotiana glauca* ? [specimen at CACA; #6159]

*Nicotiana trigonophylla*

*Petunia parviflora*

*Physalis angulata* ? [specimen at CACA; #4392]

*Physalis hederifolia* [B&N only]

*Physalis lobata*

*Solanum elaeagnifolium*

*Solanum rostratum*

**STERCULIACEAE:**

*Ayenia microphylla* [B&N only]

**TYPHACEAE:**

*Typha angustifolia* ? [specimen at CACA; #4390]

*Typha domingensis* [B&N only]

**ULMACEAE:**

*Celtis reticulata*

**URTICAEAE:**

*Parietaria hespera* [B&N only]

**VERBENACEAE:**

*Aloysia wrightii*

*Glandularia wrightii* ?

*Glandularia pumila*

*Phyla lanceolata* ? [specimen at CACA; #4475]

*Phyla nodiflora* [specimen at CACA]

*Tetradlea coulteri*

*Verbena hastata* ? [specimen at CACA; #5339,6208]

*Verbena neomexicana*

*Verbena perennis*

*Verbena peruviana* ? (not in Roalson & Allred)  
[specimen at CACA; #6204]

**VIOLACEAE:**

*Hybanthus verticillatus* [B&N only]

**VISCACEAE:**

*Arceuthobium vaginatum* [B&N only]

*Phoradendron flavescens* ? (divided into several species  
by R&A) [specimen at CACA; #number  
illegible]

*Phoradendron juniperinum* [B&N only]

*Phoradendron villosum*

**VITACEAE:**

*Cissus incisa*

*Parthenocissus inserta* [B&N only]

*Vitis arizonica*

**ZYGOPHYLLACEAE:**

*Kallstroemia californica* [B&N only]

*Kallstroemia parviflora* [specimen at CACA]

*Larrea tridentata*

*Tribulus terrestris*

The authors make no claim as to the accuracy of the identifications of specimens used by Burgess & Northington, or the specimens which they referred to, or the specimens at the Carlsbad Caverns herbarium. We also make no claim that species implied to occur within the boundaries of Carlsbad Caverns National Park, have actually been verified to occur there.

This paper is not intended to be a complete flora. It is primarily a review of previous studies to be used as a basis for a more complete and definitive future study.

There are several additional species, which we have observed at Carlsbad Caverns National Park, which as of this date, we have not yet collected and deposited at the Park herbarium. Therefore, they are not included on this list.

Many synonyms were not cross-referenced properly in Roalson & Allred. A working knowledge of synonyms was necessary to find some of their names.

A number of species not found in Roalson & Allred may represent species reported by Burgess & Northington for Carlsbad Caverns National Park, but not yet verified for New Mexico, or may represent clerical errors at the Carlsbad Caverns herbarium.

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